

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 1. (Currently Amended) A system for real-time device driver error handling, comprising:  
2 a computer comprising a device driver, a monitoring unit and a device driver information,  
3 said monitoring unit monitoring an operating state and searching said device driver information, and  
4 outputting [[said]] a diagnosing message to said computer when said device driver errors occur; and  
5 a web server comprising a driver error handling program, said device driver error handling  
6 program storing a standard driver information, performing a diagnosis of said device driver by  
7 comparing said standard driver information with said device driver information, and displaying said  
8 diagnosing result on said computer.

1 2. (Original) The system of claim 1, with said web server further comprising:  
2 a first portion storing said standard driver information;  
3 a second portion interpreting said device driver information searched by said monitoring unit;  
4 a third portion performing a diagnosis of said device driver by comparing said standard driver  
5 information from said first portion with said device driver information from said second portion; and

6 a fourth portion displaying the diagnosing result from said third portion to said computer.

1 3. (Original) The system of claim 2, with said fourth portion displaying the error correction  
2 result to said computer after automatically correcting the error by said standard diagnosis information  
3 stored in said first portion in case of an automatically correctable error, said fourth portion displaying  
4 how to correct the error to said computer in case of automatically uncorrectable error when the  
5 device driver error occurs.

1 4. (Original) The system of claim 1, with said monitoring unit being a file of said computer,  
2 said file being a logical block of computer information as designated by a name and treated as a unit.

1 5. (Original) The system of claim 4, with said file not being able to be manipulated by a user  
2 of said computer.

1 6. (Original) The system of claim 2, with said standard driver information being changeable  
2 by an operator of said web server.

1 7. (Original) The system of claim 3, with the automatically uncorrectable error being a  
2 hardware error of said computer or a device corresponding to said device driver.

1 8. (Original) A method of real-time device driver error handling, comprising:

2 installing a monitoring unit in order to monitor a state of a computer and an operating state  
3 of a device driver in said computer;

4 storing a standard diagnosis information of said device driver in order to perform a diagnosis  
5 of said device driver;

6 monitoring an operating state of said device driver to detect device driver errors through said  
7 monitoring unit;

8 contacting said computer with a web server to execute a driver error handling program  
9 through a network, said driver error handling program performing a diagnosis of said device driver;

10 confirming the device driver errors by comparing standard driver information with said  
11 device driver information of said device driver; and

12 displaying a diagnosing result to said computer from said step of confirming the device driver  
13 errors.

1 9. (Original) The method of claim 8, further comprising,  
2 discriminating whether the device driver error is an automatically correctable error or an  
3 automatically uncorrectable error;

4 correcting the device driver error when said computer accepts a correction message in case  
5 of the automatically correctable error, thereafter displaying an error correction result; and

6 displaying how to correct the device driver errors in case of the automatically uncorrectable  
7 error.

1           10. (Original) The method of claim 8, further comprising  
2           outputting a message of an automatic correction advice to said computer when said computer  
3           does not accept said correction message in case of the automatically correctable error.

1           11. (Original) The method of claim 8, with said step of installing said monitoring unit being  
2           to simultaneously install said monitoring unit for said device driver when said device driver is  
3           installed in said computer.

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1           12. (Original) The method of claim 8, with said web server further comprising:  
2           a first portion storing said standard diagnosis information of said device driver;  
3           a second portion interpreting said device driver information searched by said monitoring unit;  
4           a third portion performing a diagnosis of said device driver by comparing said standard  
5           diagnosis information with said device driver information; and  
6           a fourth portion displaying the diagnosing result to said computer.

1           13. (Original) The method of claim 8, with said monitoring unit being a file of said computer,  
2           said file being a logical block of computer information as designated by a name and treated as a unit.

1           14. (Original) The method of claim 13, with said file not being able to be manipulated by a  
2           user of said computer.

1           15. (Original) The method of claim 8, with said standard diagnosis information being  
2           changeable by an operator of said web server.

1           16. (Original) The method of claim 9, with the automatically uncorrectable error being a  
2           hardware error of said computer or a device corresponding to said device driver.

1           17. (Original) A method, comprising the steps of:  
2           monitoring an operational state of a device driver installed on a first computer;  
3           storing standard diagnosis information of said device driver on a second computer, said  
4           standard diagnosis information being when an operational state of said device driver is normal;  
5           networking said first computer with said second computer;  
6           outputting said monitored device driver information from said monitoring of the operational  
7           state of said device driver;  
8           sending said monitored device driver information from said first computer to said second  
9           computer;  
10          comparing said standard diagnosis information with said monitored device driver information  
11          to confirm any error with said device driver;  
12          displaying instruction for correcting the error of said device driver when the error is not  
13          automatically correctable; and  
14          correcting the error of said device driver when the error is automatically correctable.

1 18. (Original) The method of claim 17, further comprising the steps of:

2 instructing by said first computer to said second computer to execute a program after said  
3 step of networking said first computer with said second computer, said program handling the device  
4 driver error on said first computer;

5 searching for a monitoring file on said first computer by said program;

6 executing said monitoring file through instructions of said program; and

7 searching for said monitored device driver information by said monitoring file for said step  
8 of outputting said monitored device driver information.

3 1 19. (Original) The method of claim 18, further comprising the step of interpreting the  
2 monitored device driver information before said step of comparing said standard diagnosis  
3 information with said monitored device driver information.

1 20. (Original) The method of claim 19, further comprising the steps of:

2 displaying on said first computer a result of said step of comparing said standard diagnosis  
3 information with said monitored device driver information to confirm any error with said device  
4 driver;

5 discriminating whether the error is automatically correctable;

6 prompting a response from said first computer as to whether a correction is to be  
7 automatically executed when the error is automatically correctable; and

8 displaying on said first computer a result of the error correction after said step of

9 automatically correcting the error.

1 21. (Original) The method of claim 20, with said second computer being a web server  
2 displaying a web page on said first computer for instruction by said first computer.

1 22. (Original) The method of claim 20, with the automatically correctable error being a  
2 software related error on said first computer and the automatically uncorrectable error being a  
3 hardware related error on said first computer.

1 23. (Original) The method of claim 20, further comprising the steps of:  
2 recommending a correction of the error when the error is automatically correctable and when  
3 said first computer opted no correction in said step of prompting a response from said first computer;  
4 executing no correction of the error when the recommendation is not accepted; and  
5 correcting the error when the recommendation is accepted.

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